

Patent claims

1. A method for the production of tubular membranes,
5 characterized in that a tubular body (10) is constructed from a plurality of threads (12) in such a way that at least some of the threads (12) are tied substantially firmly together along fillet-like connecting lines (14), in that between
10 the fillet-like connecting lines (14) at least some of the threads (12) form the transverse connection (16) between the mutually adjacent connecting lines (14), and in that a predefinable membrane material (18) is applied to the tubular
15 body (10).
2. The method as claimed in claim 1, characterized in that the tubular body (10) is created by means of a crocheting device, and in that each inserted
20 thread is assigned its own hooked needle or crochet needle.
3. The method as claimed in claim 2, characterized in that the tubular body (10) is created by
25 crocheting in such a way that passages (20) allowing liquid to pass through at a high flow rate are formed between the individual transverse connections (16), and in that the fillet-like connecting lines (14) are designed to be
30 substantially liquid-tight or to allow liquid to pass through at a low flow rate.
4. The method as claimed in one of claims 1 through 3, characterized in that the threads
35 (monofilaments or multifilaments) are chosen from the group of
 - synthetic materials such as polyester, polyaramides, other polymers, carbon, Kevlar or

- metals (wires) such as nickel, platinum, palladium, gold, silver, stainless steel or
- catalytically active substances such as ruthenium, rhodium, iridium, nickel or
- 5 - other materials such as cellulose acetate, glass fibers, graphite powder, activated charcoal or

10 from mixtures and compounds of the aforementioned groups.

5. The method as claimed in one of claims 1 through 4, characterized in that the adjacent transverse connections (16) are arranged between two
15 connecting lines (14) in such a way that between them they enclose an angle of 10 to 70°, preferably of approximately 30°.

6. The method as claimed in one of claims 1 through 5, characterized in that the tubular body (10) is
20 constructed from at least three, preferably six connecting lines (14) between which three, preferably six surfaces of transverse connections (16) extend on which the membrane material is
25 applied.

7. The method as claimed in one of claims 1 through 6, characterized in that the tubular body (10) is coated with a membrane-activatable substance which
30 is guided through a precipitation bath, the substance being converted into a microporous membrane layer.

8. The method as claimed in one of claims 1 through 7, characterized in that the membrane materials
35 are chosen from the group of synthetic materials such as polyethersulfone, polysulfone, polyacrylonitrile or polyvinylidene fluoride.

9. A tubular membrane produced by the method as claimed in one of patent claims 1 through 8, characterized in that the tubular body (10) is constructed from a plurality of threads (12) in such a way that at least some of the threads (12) are tied substantially firmly together along fillet-like connecting lines (14), in that between the fillet-like connecting lines (14) at least some of the threads (12) form the transverse connection (16) between the mutually adjacent connecting lines (14), and in that a predefinable membrane material (18) is applied to the tubular body (10).